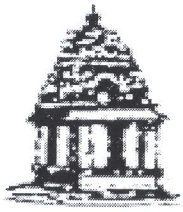

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Emergency Works in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Job Code: 009-20-000012

Estimated Cost: Rs: 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Emergency Grant in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division.**

									Estimate Cost:	**2000000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	6th Main Canara Bank Layout		2	126.00	0.50	0.45	56.70		
	7th Main Canara Bank Layout		2	125.00	0.50	0.45	56.25		
	8th Cross Canara Bank Layout		2	87.00	0.50	0.45	39.15		
	Berm Cutting								
	6th Main Canara Bank Layout		2	126.00	0.90	0.25	56.70		
	7th Main Canara Bank Layout		2	125.00	0.90	0.25	56.25		
	8th Cross Canara Bank Layout		2	87.00	0.90	0.20	31.32		
							296.37	250.24	**74165.00**
	Basic Rate	130.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		236.08							
	Area Weightage @6%	14.16							
	Total	**250.24**							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-**	Sqm							
	BS Slab Drain								
	6th Main Canara Bank Layout		2	126.00		1.35	340.20		
	7th Main Canara Bank Layout		2	125.00		1.35	337.50		
	8th Cross Canara Bank Layout		2	87.00		1.35	234.90		
	BS Slab Drain Covering Slab						**912.60**		
	6th Main Canara Bank Layout		2	126.00		0.90	226.80		
	7th Main Canara Bank Layout		2	125.00		0.90	225.00		
	8th Cross Canara Bank Layout		2	87.00		0.90	156.60		
							608.40		
	Deduct 35 % of open space						-212.94		
	Total Qty						**395.46**		
							1308.06	111.30	**145587.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%		Vide Item No. 2				319.41		
	Basic Rate	700.00					**319.41**	742.00	**237002.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	6th Main Canara Bank Layout		1	126.00	5.70		718.20		
	7th Main Canara Bank Layout		1	125.00	5.70		712.50		
	8th Cross Canara Bank Layout		1	87.00	5.70		495.90		
	Total Qty						**1926.60**		
	Consider 35% of the Total Qty						**674.31**	95.40	**64329.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
5	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	6th Main Canara Bank Layout		1	126.00	5.70	0.23	165.19		
	7th Main Canara Bank Layout		1	125.00	5.70	0.23	163.88		
	8th Cross Canara Bank Layout		1	87.00	5.70	0.23	114.06		
	Total Qty						**443.12**		
	Consider 35% of the Total Qty						**155.09**	2001.28	**310381.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
6	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	6th Main Canara Bank Layout		1	126.00	5.70		718.20		
	7th Main Canara Bank Layout		1	125.00	5.70		712.50		
	8th Cross Canara Bank Layout		1	87.00	5.70		495.90		
	Total Qty						**1926.60**		
	Consider 35% of the Total Qty						**674.31**	36.04	**24302.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	6th Main Canara Bank Layout		1	126.00	5.70	0.05	35.91		
	7th Main Canara Bank Layout		1	125.00	5.70	0.05	35.63		
	8th Cross Canara Bank Layout		1	87.00	5.70	0.05	24.80		
	Total Qty						**96.33**		
	Consider 35% of the Total Qty						**33.72**	5551.22	**187162.00**
	Basic Rate	5237.00							
	Area Weightage @ 6%	314.22							
	Total	**5551.22**							
8	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	6th Main Canara Bank Layout		1	126.00	5.70		718.20		
	7th Main Canara Bank Layout		1	125.00	5.70		712.50		
	8th Cross Canara Bank Layout		1	87.00	5.70		495.90		
	Total Qty						**1926.60**	5.30	**10211.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
9	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 8				1926.60		
	asper Revised Basic Rate	14.00					**1926.60**	14.84	**28591.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6. PWD SR 2018-19**	Cum							
	6th Main Canara Bank Layout		1	126.00	5.70	0.040	28.73		
	7th Main Canara Bank Layout		1	125.00	5.70	0.040	28.50		
	8th Cross Canara Bank Layout		1	87.00	5.70	0.040	19.84		
	Revised Basic Rate	7464.00					**77.06**	7911.84	**609718.00**
	Area Weightage @ 6%	447.84							
	Total	**7911.84**							
11	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 **Page No. 182, Item No. 24.15 PWD SR 2018-19**	Sqm							
	6th Main Canara Bank Layout		2	126.00	0.10		25.20		
	7th Main Canara Bank Layout		2	125.00	0.10		25.00		
	8th Cross Canara Bank Layout		2	87.00	0.10		17.40		
	Revised Basic Rate	429.00					**67.60**	454.74	**30740.00**
	Area Weightage @ 6%	25.74							
	Total	**454.74**							
12	Supply and fixing of **Retro Reflective Single Arrow Road Name Signboard of size 1600 mm x 900 mm made** out of retro reflective sheeting conforming to Type XI standrads of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of dlue colour and white letters and fixed over 4 mm thick aluminium composite materials sheet having minimum 0.5 mm thick aluminium skin on both sides with back side painted grey colour and fixed over back supportframe SS angle of 15 mm x 20 mm x 1.2 mm supported by 38 mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground means of properly designed foundation of size 450 mm x 450 mm x 600 mm in 1:1.5:3 ratio cement concrete the background shall be blue in color with letters and boarder in white the item includes earthwork excavation cost of all materials, loading, unloading, lead, lift, transportation etc complete as per direction of engineer incharge of work clause 6.9 of IRC 67-2012 for	Sqm							
			5	0.75	1.20		4.50		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Revised Basic Rate	13297.00					**4.50**	14094.82	**63427.00**
	Area Weightage @ 6%	797.82							
	Total	**14094.82**							
	Sub Total								**1785615.00**
	GST @ 12%								**214274.00**
	Miscellaneous and other Charges	L/S							**111.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 This work included under 2018-19 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval

Accorded For Rs 20 lakhs only
Head of A/C P1771
CER NO :106 Dt:25'02'2020

TA to CE (YNK)

TECHNICAL SANCTION

Accorded For Rs. 20.00 lakhs only
Head of A/c. P1771 POW works.
Div. Ref. No. 49 Date. 24/4/2020

24/06

AE EE(BTP)